

Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

1- 38. Cancelled.

39. (New) A method for use in a medical device for controlling wireless telemetry during a magnetic resonance imaging (MRI) procedure, the method comprising:

determining a plurality of time intervals defining a plurality of MRI electromagnetic bursts;

transmitting wireless telemetry from the medical device during delivery of the plurality of MRI electromagnetic bursts; and

automatically adjusting the telemetry transmission during the MRI burst delivery in response to the determined plurality of time intervals.

40. (New) The method of claim 39 wherein determining the plurality of time intervals comprises receiving the time intervals from an MRI device.

41. (New) The method of claim 39 wherein determining the plurality of time intervals comprises detecting the MRI bursts and measuring the time intervals.

42. (New) The method of claim 39 wherein the plurality of time intervals comprises a duration of at least one of the plurality of MRI electromagnetic bursts.

43. (New) The method of claim 42 wherein adjusting telemetry comprises blanking a telemetry component in the medical device during the duration.

44. (New) The method of claim 42 wherein adjusting telemetry comprises increasing a power of the telemetry signals transmitted during the duration.

45. (New) The method of claim 42 wherein adjusting telemetry comprises selecting a non-electromagnetic telemetry signal for transmission during delivery of the plurality of MRI electromagnetic bursts.

46. (New) The method of claim 39 wherein the plurality of time intervals comprises an interval between successive MRI bursts.

47. (New) The method of claim 46 wherein adjusting telemetry comprises selecting a data packet size that can be transmitted during the interval between successive MRI bursts.

48. (New) The method of claim 40 further comprising synchronizing a clock of the medical device with an MRI clock.

49. (New) The method of claim 39 further comprising determining a strength of an MRI electromagnetic burst and adjusting the telemetry transmission comprises adjusting the telemetry transmission in response to the determined strength.

50. (New) A medical device, comprising:

means for determining a plurality of time intervals defining a plurality of MRI electromagnetic bursts;

a telemetry unit for transmitting wireless telemetry from the medical device during delivery of the plurality of MRI electromagnetic bursts; and

a control unit configured to automatically adjust the telemetry transmission during the MRI burst delivery in response to the determined plurality of time intervals.

51. (New) The device of claim 50 wherein the means for determining the plurality of time intervals comprises means for receiving the time intervals from an MRI device.

52. (New) The device of claim 50 wherein the means for determining the plurality of time intervals comprises means for detecting the MRI bursts and means for measuring the time intervals.

53. (New) The device of claim 50 wherein the plurality of time intervals comprises a duration of at least one of the plurality of MRI electromagnetic bursts.

54. (New) The device of claim 53 wherein the control unit is configured to blank a telemetry component in the telemetry unit during the duration.

55. (New) The device of claim 53 wherein the control unit is configured to increase a power of the telemetry signals transmitted during the duration.

56. (New) The device of claim 53 wherein the control unit is configured to select a non-electromagnetic telemetry signal for transmission during delivery of the plurality of MRI electromagnetic bursts.

57. (New) The device of claim 50 wherein the plurality of time intervals comprises an interval between successive MRI bursts.

58. (New) The device of claim 57 wherein the control unit is configured to select a data packet size that can be transmitted during the interval between successive MRI bursts.

59. (New) The device of claim 51 further comprising a clock and means for synchronizing the clock with an MRI clock.

60. (New) The device of claim 50 further comprising means for determining a strength of an MRI electromagnetic burst, wherein the control unit is configured to adjust the telemetry transmission in response to the determined strength.

61. (New) The device of claim 50 further comprising means for determining a magnetic gradient, wherein the control unit is configured to adjust the telemetry transmission in response to the determined gradient.